AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior listing of claims in this application.

Claims 1-31 (canceled).

32. (currently amended) An integrated circuit comprising:

a reflective layer having a reflective surface;

a first anti-reflective coating <u>layer</u> formed over the reflective surface, the first <u>anti-reflective</u> coating <u>layer</u> having a first index of refraction, a first absorption, a first thickness, and an upper surface defining a first interface;

a second anti-reflective coating <u>layer</u>, the second anti-reflective coating <u>layer</u> having a second index of refraction, a second absorption, a second thickness, and an upper surface defining a second interface, wherein the first index of refraction is different from the second index of refraction and the indices of refraction, absorptions, and thicknesses of the first and second anti-reflective coatings coating <u>layers</u> are chosen such that the amplitudes and phase differences of all sources of reflected radiation which reside at or below the second interface substantially mutually cancel when combined.

33. (canceled).

34. (currently amended) The integrated circuit according to claim 32, wherein the second antireflective anti-reflective coating layer is on the entire upper surface of said first anti-reflective coating layer.

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35. (canceled).

36. (currently amended) The integrated circuit according to claim 32, further comprising at least one additional anti-reflective coating <u>layer formed</u> over the first and second coatings <u>anti-reflective coating layers</u>.

37. (currently amended) The integrated circuit according to claim 32, further comprising a dielectric material over the second <u>anti-reflective</u> coating <u>layer</u>.

38. (currently amended) The integrated circuit according to claim 32, wherein the thickness of the first <u>anti-reflective</u> coating <u>layer</u> is approximately 40 nanometers and the thickness of the second <u>anti-reflective</u> coating <u>layer</u> is approximately 25 nanometers.

39. (original) The integrated circuit according to claim 32, wherein the first index of refraction is approximately 2.1, the second index of refraction is approximately 2.0, the first absorption is approximately 1.2, and the second absorption is approximately 0.3.

40. (currently amended) A memory cell comprising:

a structure on a substrate, the structure comprising:

at least two active areas formed in the substrate;

a gate stack between the active areas; and

a capacitor electrically coupled with one of the active areas;

a first anti-reflective coating <u>layer formed</u> over the structure, the first antireflective coating <u>layer</u> having a first index of refraction, a first absorption, a first

thickness, and an upper surface defining a first interface and adapted to stop an etch process;

a second anti-reflective coating <u>layer formed</u> on at least a portion of the first anti-reflective coating <u>layer</u>, the second anti-reflective coating <u>layer</u> having a second index of refraction, a second absorption, a second thickness, and an upper surface defining a second interface and adapted to stop an etch process;

a third anti-reflective coating in-contact-with said second anti-reflective coating, the third anti-reflective coating having a third-index of refraction, a third absorption and a third-thickness, wherein the second index of refraction is greater than the first index of refraction but smaller than the third-index of refraction; and

an insulating layer <u>formed</u> over the <u>third</u> <u>second</u> anti-reflective coating <u>layer</u>, <u>wherein the first index of refraction is different from the second index of refraction</u>.

- 41. (currently amended) The integrated circuit according to claim 40, wherein the indices of refraction, absorptions, and thicknesses of the first and second anti-reflective coatings coating layers are chosen such that the amplitudes and phase differences of all sources of reflected radiation which reside at or below the second interface substantially mutually cancel when combined.
- 42. (currently amended) The memory cell according to claim 40, wherein the second anti-reflective coating <u>layer</u> is formed entirely on said first anti-reflective coating <u>layer</u>.
- 43. (currently amended) The memory cell according to claim 40, wherein the first and second coatings <u>coating layers</u> are <u>formed</u> below the insulating layer.

44. (previously presented) The memory cell according to claim 40, wherein the structure is a dual DRAM cell structure comprising first, second and third active areas, first and second gate stacks and first and second capacitors, the first gate stack being formed between the first and second active areas, the second gate stack being formed between the second and third active areas, the first capacitor being in electrical communication with the first active area, the second capacitor being in electrical communication with the third active area, and the second active area being in electrical communication with a bit line.

- 45. (original) The memory cell according to claim 44, wherein the capacitors are formed over the gate stacks.
- 46. (original) The memory cell according to claim 45, wherein the capacitors are container capacitors.
- 47. (original) The memory cell according to claim 44, wherein the bit line is formed over the capacitors.
- 48. (currently amended) The memory cell according to claim 40, wherein the thickness of the first <u>anti-reflective coating</u> layer is approximately 40 nanometers and the thickness of the second <u>anti-reflective coating</u> layer is approximately 25 nanometers.
 - 49. (canceled).

50. (currently amended) An integrated circuit comprising:

at least one memory cell, the memory cell comprising:

a structure on a substrate, the structure comprising:

at least two active areas formed in the substrate;

a gate stack between the active areas;

a capacitor in electrical contact with one of the active areas;

an etch stop layer comprising:

a first anti-reflective coating <u>layer formed</u> over the structure, the first anti-reflective coating <u>layer</u> having a first index of refraction, a first absorption, a first thickness and an upper surface defining a first interface;

a second anti-reflective coating <u>layer formed</u> over and in contact with at least a portion of the first anti-reflective coating <u>layer</u>, the second anti-reflective coating <u>layer</u> having a second index of refraction, a second absorption, a second thickness and an upper surface defining a second interface, wherein the first index of refraction is different from the second index of refraction and the indices of refraction, absorptions, and thicknesses of the first and second anti-reflective coatings coating <u>layers</u> are chosen such that the amplitudes and phase differences of all sources of reflected radiation which reside at or below the second interface substantially mutually cancel when combined; and

an insulating layer <u>formed</u> over the structure.

51. (currently amended) A computer system comprising:

a processor; and

a memory, the memory comprising at least one memory cell, the memory cell comprising:

a structure on a substrate, the structure comprising:

at least two active areas formed in the substrate;

a gate stack between the active areas; and

a capacitor in electrical contact with one of the active areas;

a first anti-reflective coating <u>layer formed</u> over the structure, the first antireflective coating <u>layer</u> having a first index of refraction, a first absorption, a first thickness, an upper surface defining a first interface and adapted to stop an etch process; and

a second anti-reflective coating <u>layer</u> formed in contact with the first antireflective coating <u>layer</u>, the second anti-reflective coating <u>layer</u> having a second
index of refraction, a second absorption, a second thickness, an upper surface
defining a second interface—and—adapted to stop—an—etch process, wherein the first
index of refraction is different from the second index of refraction and the indices of
refraction, absorptions, and thicknesses of the first and second anti-reflective
coatings <u>coating layers</u> are chosen such that the amplitudes and phase differences of
all sources of reflected radiation which reside at or below the second interface
substantially mutually cancel when combined.

Claims 52-57 (canceled).

58. (currently amended) The integrated circuit according to claim 32, further comprising an inter-level dielectric layer located between said first and second anti-reflective coatings coating layers.

59. (currently amended) The integrated circuit according to claim 32, <u>further</u> <u>comprising an</u> inter-level dielectric layer located below said first and second anti-reflective <u>coatings</u> <u>coating layers</u>.

60. (currently amended) An integrated circuit comprising:

a reflective layer having a reflective surface;

a first silicon dioxide layer formed over the reflective layer;

a first anti-reflective coating <u>layer formed</u> over and in contact with the first silicon dioxide layer, the first <u>anti-reflective</u> coating <u>layer</u> having a first index of refraction, a first absorption, a first thickness, and an upper surface defining a first interface, wherein the first reflective coating <u>layer</u> is on the first silicon dioxide layer;

a second anti-reflective coating <u>layer</u> in contact with said first anti-reflective coating <u>layer</u>, the second anti-reflective coating <u>layer</u> having a second index of refraction, a second absorption, a second thickness, and an upper surface defining a second interface, wherein the first index of refraction is different from the second index of refraction; and

a second silicon dioxide layer <u>formed</u> over the second anti-reflective coating <u>layer</u>.

61. (currently amended) An integrated circuit comprising:

a reflective layer having a reflective surface; and

an etch etch-stop layer comprising:

a first anti-reflective coating <u>layer formed</u> over the reflective surface, the first <u>anti-reflective</u> coating <u>layer</u> having a first index of refraction, a first absorption, a

first thickness, and an upper surface defining a first interface; and

a second anti-reflective coating layer in contact with said first anti-

reflective coating <u>layer</u>, the second anti-reflective coating <u>layer</u> having a second index of

refraction, a second absorption, a second thickness, and an upper surface defining a

second interface, wherein the first index of refraction is different from the second index

of refraction and the indices of refraction, absorptions, and thicknesses of the first and

second anti-reflective coatings coating layers are chosen such that the amplitudes and

phase differences of all sources of reflected radiation which reside at or below the

second interface substantially mutually cancel when combined.

62. (canceled).

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